

Engineering and Surveying Division - Supplemental Information

PLACER COUNTY COMMUNITY DEVELOPMENT/RESOURCE AGENCY ENGINEERING AND SURVEYING DIVISION

Supplemental information to be included with the Environmental Questionnaire (EQ)

The following information is required to determine the potential environmental impacts of the proposed project and to identify appropriate mitigation measures. However, additional information may be requested if the provided information leads to further questions, and/or if the County is unable to complete the initial study checklist due to an incomplete EQ.

1. Preliminary Grading Plan

- Submit a preliminary grading plan to include, at a minimum:
 - Locations and limits of cuts and fills.
 - Topographic information such as existing and proposed elevation contour lines and spot elevations.
 - Existing and proposed site improvements.
 - Existing and proposed easements and/or right-of-way with appropriate dimensions.
 - Location, width, direction of flow of any watercourses.
 - Estimated quantity of cut and fill, and estimated area of disturbance.
 - Any impacts to adjacent properties.

2. Preliminary Geotechnical Report

- Submit a geotechnical report including all of the following if applicable to the proposed site:
 - Site map that shows the topographic features of the site and locations of all soil borings and test excavations.
 - Classification of the soil types (unified soil classification), pertinent laboratory test data and consequent evaluation regarding the nature, distribution, and strength of existing soils.
 - Description of the geology of the site and geology of the adjacent areas.
 - Identification of any areas of land slippage.
 - Description of any encountered groundwater or excessive moisture conditions.
 - Evaluation of the stability of pertinent natural slopes and recommendations regarding maximum cut and fill slopes of proposed work.
 - Recommendations for mitigation of any geologic hazards present on site.
 - Recommended erosion control measures applicable to the soil types present.

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3. Preliminary Drainage Report

- Submit a preliminary drainage report prepared in accordance with the Placer County Flood Control District Storm Water Management Manual in order to identify and analyze the drainage related impacts occurring from the proposed development. At a minimum, the report should address the following (with preliminary calculations where appropriate):
 - A shed map that depicts all watershed areas that drain into/through/from the project site and appropriate flow lengths and paths shown.
 - A table indexed to the shed map indicating shed area acreage, soil and cover types, existing and/or future land use, pervious infiltration rates, impervious area.
 - Preliminary calculation of pre-development runoff versus post-development runoff for the 10 and 100-year storm.
 - Discussion of the effect of concentrating runoff in structures and ditches
 - Location, conceptual details, and the method of discharge of the on and off site storm drainage system (including the drainage along roadways).
 - The impacts and proposed mitigations to downstream drainage facilities (identify the size and approximate maximum capacity of existing inlets, outlets, culverts, ditches, etc.). If the project proposes to mitigate off site impacts by replacing existing structures, indicate the proposed sizes and locations.
 - Preliminary detention facility design if proposed and/or required.
 - Description and location of any existing irrigation ditches/canals on the project site and/or upstream or downstream of the project, with any "spill rights" that the canals may have which could impact the design.
 - Identify the future, fully developed, unmitigated 100-year floodplain limits for any on site or adjacent watercourses with tributary areas of 20 acres or more (identify if the project increases the existing 100-year water surface elevation).
- The proposed project is located within an area where local detention of storm water is recommended. The post-project flow will be required to be reduced to pre-project levels, at a minimum. The project should incorporate mitigations for downstream impacts due to the increase in runoff from the proposed project's impervious surfaces. Detention facilities should not be located within the riparian areas or 100-year floodplain.

4. Stormwater & Surface Water Quality Best Management Practices (BMP) Plan

- Submit a BMP Plan to include, at a minimum:
 - Expected non-point pollution sources from the proposed land uses.

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- List of potential contaminants that could enter the stormwater conveyance system.
 - Proposed source control methods to be applied and/or a discussion of why source control methods are not sufficient/practical.
 - Proposed BMPs or combination of BMPs best suited to reduce pollutant loadings in the project's runoff both during ("temporary") and after ("permanent") construction to the maximum extent practicable. The BMP locations should be identified on the preliminary site/grading plan (outside of any existing or proposed right-of-way or drainageway).
 - Preliminary supporting design calculations identifying specific BMPs, as described in the California Stormwater Quality Association Stormwater Best Management Practice Handbook for New Development and Redevelopment (www.cabmphandbooks.com) or other similar DPW approved source.
 - Discuss and evaluate the effectiveness of the proposed BMPs. Include manufacturer's information and/or existing soil properties/water table information, if applicable.
- All discretionary development and redevelopment projects that fall into any of the following categories are subject to Attachment 4 Design Standards of the State Water Resources Control Board NPDES General Permit. If applicable, show how this project will comply with the design standards required by the NPDES General Permit. To review the General Permit visit the State's website at: http://www.swrcb.ca.gov/stormwtr/phase_ii_municipal.html.
 - Single-family hillside residences
 - 100,000 square foot commercial developments
 - Automotive repair shops
 - Retail gasoline outlets
 - Restaurants
 - Home subdivisions with 10 or more housing units
 - Parking lots 5,000 square feet or more or with 25 or more parking spaces and potentially exposed to storm water runoff